



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/551,273

09/28/2005

Maşaki Urano

789_148

4653

25191 7590 08/14/2007
BURR & BROWN
PO BOX 7068
SYRACUSE, NY 13261-7068

EXAMINER

LEE, BENNY T

ART UNIT

PAPER NUMBER

2817

MAIL DATE

DELIVERY MODE

08/14/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

T17

Office Action Summary	Application No.	Applicant(s)	
	10/551,273	URANO ET AL.	
	Examiner	Art Unit	
	Benny Lee	2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-11; 12-14; 15-17 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 September 2005 & 30 May 2007 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

This application is in condition for allowance except for the following formal matters:

In the Specification:

The disclosure is objected to because of the following informalities: Page 9, line 25, note that "52a through 52d" should be rewritten as --52a, 52b, 52c, 52d-- for consistency with the corresponding drawing figure. In the replacement paragraph to page 25, lines 9-14, first line therein, note that "S2 through S5" should be rewritten as --S2, S3, S4 and S5-- for consistency with the corresponding drawing figure. In the replacement paragraph to page 25, line 15-18, first line therein note that "S7 through S9" should be rewritten as --S7, S8 and S9-- for consistency with the corresponding drawing figure. Note that the following reference labels need description relative to the corresponding drawing figure: Fig. 6 (164); Fig. 7 (S1). Appropriate correction is required.

In the Drawings:

The drawings are objected to because in FIG. 5, reference label "108" appears to have been improperly used to designate two different types of via connections. Should the via connection "108" leading to terminal connection "92" properly be designated as --100--? For example, see the labeling in FIG. 3.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must

Art Unit: 2817

be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

In the Claims:

The following claims have been found objectionable for reason set forth below:

In claim 9, lines 3, 6; claim 11, line 2; claim 12, lines 4, 10; claim 15, lines 2, 5; claim 17, line 2: note that "formed" should be rewritten as --disposed-- at each occurrence for an appropriate characterization.

In claim 9, line 6, note that --corresponding-- should precede "connecting" for an appropriate characterization; line 9, note that "formed by" should be rephrased as --comprised of-- for an appropriate characterization; line 11, note that "that" should be rephrased as --a diameter-- for an appropriate characterization.

In claims 10, 14, 16: line 2 of each claim, note that --further-- should precede "comprises" for an appropriate characterization; line 3 of each claim, note that --resonator-- should precede "via hole" for clarity of description; lines 4, 5 of each claim, note that "forms" should be rewritten as --is-- at each occurrence for an appropriate characterization; line 5 of each claim, note that "open end" should be rephrased as --open-circuiting end-- for an appropriate characterization.

Art Unit: 2817

In claim 13, line 2, note that --plurality of stacked-- should precede "dielectric layers" for consistency in claim terminology.

In claim 15, lines 12, 15, 19, note that "formed" should be rewritten as --located-- at each occurrence for an appropriate characterization.

Comments:

Regarding the lack of description in FIG. 7 of "S1", it should be noted that the FIG. 7 description does not reference that description to earlier figures.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

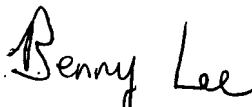
Claims 9-11; 12-14; 15-17 are allowable over the prior art of record.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sakakura et al & Mizutani et al both pertain to stacked dielectric circuits including a filter and a balance to unbalance converter therein, but each reference lacks the terminal connection on the bottom surface as well as the terminal orientations such as recited in claim 15.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 571 272 1764.

B. Lee


BENNY T. LEE
PRIMARY EXAMINER
ART UNIT 2817